

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 12:55:58 ON 02 JUN 2005

10/082,714

=> file biosis medline caplus wpids uspatfull
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*** YOU HAVE NEW MAIL ***

=> s biosensor? and hybridization

L1 6493 BIOSENSOR? AND HYBRIDIZATION

=> s l1 and amperometric

L2 195 L1 AND AMPEROMETRIC

=> s l2 and pulse amperometric

L3 2 L2 AND PULSE AMPEROMETRIC

=> d l3 bib abs 1-2

L3 ANSWER 1 OF 2 USPATFULL on STN

AN 2004:94706 USPATFULL

TI Electrochemical detection of nucleic acid sequences

IN Henkens, Robert W., Beaufort, NC, UNITED STATES

O'Daly, John P., Carrboro, NC, UNITED STATES

Wojciechowski, Marek, Cary, NC, UNITED STATES

Zhang, Honghua, San Diego, CA, UNITED STATES

Naser, Najih, Orlando, FL, UNITED STATES

Roe, R. Michael, Apex, NC, UNITED STATES

Stewart, Thomas N., Durham, NC, UNITED STATES

Thompson, Deborah M., Raleigh, NC, UNITED STATES

Sundseth, Rebecca, Durham, NC, UNITED STATES

Wegner, Steven E., Chapel Hill, NC, UNITED STATES

PI US 2004072158 A1 20040415

AI US 2002-82714 A1 20020225 (10)

RLI Division of Ser. No. US 2000-549853, filed on 14 Apr 2000, GRANTED, Pat.
No. US 6391558 Continuation-in-part of Ser. No. US 1998-44206, filed on
17 Mar 1998, ABANDONED

PRAI US 1997-40949P 19970318 (60)

DT Utility

FS APPLICATION

LREP Atten. Gregory A Nelson, Akerman Senterfitt, Suite 400, 222 Lakeview
Avenue P O Box 3188, West Palm Beach, FL, 33402-3188

CLMN Number of Claims: 21

ECL Exemplary Claim: 1

DRWN 20 Drawing Page(s)

LN.CNT 4480

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An electrochemical detection system which specifically detects selected
nucleic acid segments is described. The system utilizes biological

probes such as nucleic acid or peptide nucleic acid probes which are complementary to and specifically hybridize with selected nucleic acid segments in order to generate a measurable current when an **amperometric** potential is applied. The electrochemical signal can be quantified.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 2 USPATFULL on STN
AN 2002:116000 USPATFULL
TI Electrochemical detection of nucleic acid sequences
IN Henkens, Robert W., Beaufort, NC, United States
O'Daly, John P., Carrboro, NC, United States
Wojciechowski, Marek, Cary, NC, United States
Zhang, Honghua, San Diego, CA, United States
Naser, Najih, Orlando, FL, United States
Roe, R. Michael, Apex, NC, United States
Stewart, Thomas N., Durham, NC, United States
Thompson, Deborah M., Raleigh, NC, United States
Sundseth, Rebecca, Durham, NC, United States
Wegner, Steven E., Chapel Hill, NC, United States
PA Andcare, Inc., Durham, NC, United States (U.S. corporation)
PI US 6391558 B1 20020521
AI US 2000-549853 20000414 (9)
RLI Continuation-in-part of Ser. No. US 1998-44206, filed on 17 Mar 1998,
now abandoned
PRAI US 1997-40949P 19970318 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Riley, Jezia
LREP Akerman Senterfitt
CLMN Number of Claims: 27
ECL Exemplary Claim: 1
DRWN 22 Drawing Figure(s); 20 Drawing Page(s)
LN.CNT 4484

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An electrochemical detection system which specifically detects selected nucleic acid segments is described. The system utilizes biological probes such as nucleic acid or peptide nucleic acid probes which are complementary to and specifically hybridize with selected nucleic acid segments in order to generate a measurable current when an **amperometric** potential is applied. The electrochemical signal can be quantified.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=>

=> d his .

(FILE 'HOME' ENTERED AT 12:55:58 ON 02 JUN 2005)

FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 12:56:18 ON
02 JUN 2005

L1 6493 S BIOSENSOR? AND HYBRIDIZATION
L2 195 S L1 AND AMPEROMETRIC
L3 2 S L2 AND PULSE AMPEROMETRIC

=> s 12 and pulse

L4 59 L2 AND PULSE

=> s 14 not 13

L5 57 L4 NOT L3

=> dup rem 15

PROCESSING COMPLETED FOR L5

L6 57 DUP REM L5 (0 DUPLICATES REMOVED)

=> s 16 and monitor

L7 46 L6 AND MONITOR

=> s 17 and current

L8 46 L7 AND CURRENT

=> s 18 and plurality

L9 38 L8 AND PLURALITY

=> s 19 and quantita?

L10 16 L9 AND QUANTITA?

=> d 110 bib abs 1-16

L10 ANSWER 1 OF 16 USPATFULL on STN

AN 2005:89282 USPATFULL

TI Microfluidic devices with thick-film electrochemical detection

IN Wang, Joseph, Las Cruces, NM, UNITED STATES

Tian, Baomin, Las Cruces, NM, UNITED STATES

Sahlin, Eskil, Pittsburgh, PA, UNITED STATES

PA Arrowhead Center, Inc., Las Cruces, NM, UNITED STATES (U.S. corporation)

PI US 6878255 B1 20050412

AI US 2000-705100 20001102 (9)

PRAI US 1999-163852P 19991105 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Nguyen, Nam; Assistant Examiner: Mutschler, Brian L.

LREP Peacock Myers & Adams PC, Slusher, Stephen A.

CLMN Number of Claims: 82

ECL Exemplary Claim: 39

DRWN 40 Drawing Figure(s); 25 Drawing Page(s)

LN.CNT 2168

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An apparatus for conducting a microfluidic process and analysis,
including at least one elongated microfluidic channel, fluidic transport
means for transport of fluids through the microfluidic channel, and at
least one thick-film electrode in fluidic connection with the outlet end
of the microfluidic channel. The present invention includes an
integrated on-chip combination reaction, separation and thick-film
electrochemical detection microsystem, for use in detection of a wide
range of analytes, and methods for the use thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 16 USPATFULL on STN

AN 2004:314610 USPATFULL

TI Electronic detection of biological molecules using thin layers

IN Sobha M., Pisharody, Castro Valley, CA, UNITED STATES
Sandeep, Kunwar, Redwood City, CA, UNITED STATES
Mathai, George T., Castro Valley, CA, UNITED STATES
PI US 2004248282 A1 20041209
AI US 2004-480409 A1 20040716 (10)
WO 2002-US18319 20020610
PRAI US 2001-9970087 20011002
US 2001-297583P 20010611 (60)
US 2002-378938P 20020510 (60)
DT Utility
FS APPLICATION
LREP FENWICK & WEST LLP, SILICON VALLEY CENTER, 801 CALIFORNIA STREET,
MOUNTAIN VIEW, CA, 94041
CLMN Number of Claims: 158
ECL Exemplary Claim: 1
DRWN 30 Drawing Page(s)
LN.CNT 2845

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides novel sensors that facilitate the detection of essentially any analyte. In general, the **biosensors** of this invention utilize a binding agent (e.g. biomolecule) to specifically bind to one or more target analytes. In preferred embodiments, the biomolecules spans a gap between two electrodes. Binding of the target analyte changes conductivity of the sensor thereby facilitating ready detection of the binding event and thus detection and/or **quantitation** of the bound analyte.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 16 USPATFULL on STN
AN 2004:292138 USPATFULL
TI P450 single nucleotide polymorphism biochip analysis
IN Chui, Buena, Chandler, AZ, UNITED STATES
Elghanian, Robert, Skokie, IL, UNITED STATES
Gupta, Vineet, Reading, MA, UNITED STATES
Jayaraman, Krishnamurthy, Hoffman Estates, IL, UNITED STATES
Kiser, Gretchen, Mesa, AZ, UNITED STATES
Li, Changming, Schaumburg, IL, UNITED STATES
Liu, Chang-Gong, Cherry Hill, NJ, UNITED STATES
Luehrsen, Kenneth R., Half Moon Bay, CA, UNITED STATES
Mazumder, Abhijit, Buffalo Grove, IL, UNITED STATES
Ramakrishnan, Ramesh, Vernon Hills, IL, UNITED STATES
Silbergleyt, Arkadiy, Chandler, AZ, UNITED STATES
Tuggle, Todd, Oceanside, CA, UNITED STATES
Yamashiro, Carl, Chandler, AZ, UNITED STATES
Yowanto, Handy, Walnut, CA, UNITED STATES
Pestova, Ekaterina, Downers Grove, IL, UNITED STATES
Fermin, David R., Minneapolis, MN, UNITED STATES
Wang, David G., Deerfield, IL, UNITED STATES
Gu, Zhijie John, San Diego, CA, UNITED STATES
PI US 2004229222 A1 20041118
AI US 2002-114908 A1 20020401 (10)
PRAI US 2001-280583P 20010330 (60)
DT Utility
FS APPLICATION
LREP DORSEY & WHITNEY LLP, Suite 3400, Four Embarcadero Center, San
Francisco, CA, 94111-4187
CLMN Number of Claims: 48
ECL Exemplary Claim: 1
DRWN 44 Drawing Page(s)
LN.CNT 4516

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates to methods and compositions for determining single nucleotide polymorphisms (SNPs) in P450 genes. In preferred embodiments, self extension of interrogation probes is prevented by using novel non self-extension probes and/or methods, thereby improving the specificity and efficiency of P450 SNP detection in target samples with minimal false positive results. The invention thus describes a

variety of methods to decrease self-extension of interrogation probes. In addition, this invention provides a unique collection of P450 SNP probes on one assay, primer sequences for specific amplification of each of the seven P450 genes and amplicon control probes to evaluate whether the intended p450 gene targets were amplified successfully. The invention also describes a variety of array platforms for performing the assays of the invention; for example: CodeLink.TM., eSensor.TM., multiplex arrays with cartridges etc., all described herein.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 16 USPATFULL on STN
AN 2004:190094 USPATFULL
TI ELECTRONIC DETECTION OF BIOLOGICAL MOLECULES USING THIN LAYERS
IN Pisharody, Sobha M., Dublin, CA, UNITED STATES
Kunwar, Sandeep, Redwood City, CA, UNITED STATES
Mathai, George T., Dublin, CA, UNITED STATES
PI US 2004146863 A1 20040729
US 6824974 B2 20041130
AI US 2001-970087 A1 20011002 (9)
PRAI US 2001-297583P 20010611 (60)
DT Utility
FS APPLICATION
LREP FENWICK & WEST LLP, SILICON VALLEY CENTER, 801 CALIFORNIA STREET,
MOUNTAIN VIEW, CA, 94041
CLMN Number of Claims: 165
ECL Exemplary Claim: 1
DRWN 18 Drawing Page(s)
LN.CNT 2626

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides novel sensors that facilitate the detection of essentially any analyte. In general, the **biosensors** of this invention utilize a binding agent (e.g. biomolecule) to specifically bind to one or more target analytes. In preferred embodiments, the biomolecules spans a gap between two electrodes. Binding of the target analyte changes conductivity of the sensor thereby facilitating ready detection of the binding event and thus detection and/or **quantitation** of the bound analyte. A molecular sensing apparatus comprising.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 16 USPATFULL on STN
AN 2004:113586 USPATFULL
TI Multi-array, multi-specific electrochemiluminescence testing
IN Wohlstadter, Jacob N., Rockville, MD, UNITED STATES
Wilbur, James, Germantown, MD, UNITED STATES
Signal, George, Rockville, MD, UNITED STATES
Martin, Mark, Rockville, MD, UNITED STATES
Guo, Liang-Hong, Gaithersburg, MD, UNITED STATES
Fischer, Alan, Cambridge, MA, UNITED STATES
Leland, Jon, Silver Spring, MD, UNITED STATES
Billadeau, Mark A., Mt. Airy, MD, UNITED STATES
Helms, Larry R., Germantown, MD, UNITED STATES
Darvari, Ramin, Waltham, MA, UNITED STATES
PI US 2004086423 A1 20040506
AI US 2003-693441 A1 20031024 (10)
RLI Division of Ser. No. US 1997-932110, filed on 17 Sep 1997, GRANTED, Pat. No. US 6673533 Continuation-in-part of Ser. No. US 1996-715163, filed on 17 Sep 1996, GRANTED, Pat. No. US 6207369 Continuation-in-part of Ser. No. US 1996-611804, filed on 6 Mar 1996, GRANTED, Pat. No. US 6066448 Continuation-in-part of Ser. No. US 1995-402076, filed on 10 Mar 1995, ABANDONED Continuation-in-part of Ser. No. US 1995-402277, filed on 10 Mar 1995, ABANDONED
DT Utility
FS APPLICATION
LREP KRAMER LEVIN NAFTALIS & FRANKEL LLP, INTELLECTUAL PROPERTY DEPARTMENT,
919 THIRD AVENUE, NEW YORK, NY, 10022

CLMN Number of Claims: 108
ECL Exemplary Claim: 1
DRWN 47 Drawing Page(s)
LN.CNT 7253

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array, multi-specific surfaces for use in diagnostics. The invention provides for electrochemiluminescence methods for detecting or measuring an analyte of interest. It also provides for novel electrodes for ECL assays. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 16 USPATFULL on STN

AN 2004:70063 USPATFULL

TI Devices and methods for biochip multiplexing

IN Terbrueggen, Robert Henry, Hermosa Beach, CA, UNITED STATES

Blackburn, Gary F., Glendora, CA, UNITED STATES

Chason, Marc Kenneth, Schaumburg, IL, UNITED STATES

Dai, Xunhu, Gilbert, AZ, UNITED STATES

Eliacin, Manes, Buffalo Grove, IL, UNITED STATES

Grodzinski, Piotr, Santa Fe, NM, UNITED STATES

Irvine, Bruce Duncan, Glendora, CA, UNITED STATES

Kayyem, Jon Faiz, Pasadena, CA, UNITED STATES

Lian, Keryn Ke, Palatine, IL, UNITED STATES

Liu, Robin Hui, Chandler, AZ, UNITED STATES

O'Rourke, Shawn Michael, Tempe, AZ, UNITED STATES

Sheldon, Edward Lewis, III, Arcadia, CA, UNITED STATES

Zenhausern, Frederic, Fountain Hills, AZ, UNITED STATES

PI US 2004053290 A1 20040318

AI US 2003-412660 A1 20030411 (10)

RLI Continuation of Ser. No. US 2002-193712, filed on 11 Jul 2002, ABANDONED
Continuation-in-part of Ser. No. US 2001-904175, filed on 11 Jul 2001,
PENDING Continuation-in-part of Ser. No. US 2001-993342, filed on 5 Nov
2001, PENDING Continuation-in-part of Ser. No. US 2001-760384, filed on
11 Jan 2001, PENDING Continuation-in-part of Ser. No. WO 2001-US44364,
filed on 5 Nov 2001, PENDING Continuation-in-part of Ser. No. WO
2001-US1150, filed on 11 Jan 2001, PENDING

PRAI US 2000-175539P 20000111 (60)

US 2000-245840P 20001103 (60)

DT Utility

FS APPLICATION

LREP DORSEY & WHITNEY LLP, INTELLECTUAL PROPERTY DEPARTMENT, 4 EMBARCADERO
CENTER, SUITE 3400, SAN FRANCISCO, CA, 94111

CLMN Number of Claims: 14

ECL Exemplary Claim: 1

DRWN 52 Drawing Page(s)

LN.CNT 6000

AB The invention is directed to devices that allow for simultaneous multiple biochip analysis. In particular, the devices are configured to hold multiple cartridges comprising biochips comprising arrays such as nucleic acid arrays, and allow for high throughput analysis of samples.

L10 ANSWER 7 OF 16 USPATFULL on STN

AN 2004:16354 USPATFULL

TI Method and apparatus for manipulating polarizable analytes via dielectrophoresis

IN Zenhausern, Frederic, Fountain Hills, AZ, UNITED STATES

Chou, Chia-Fu, Chandler, AZ, UNITED STATES

Terbrueggen, Robert Henry, Manhattan Beach, CA, UNITED STATES

PI US 2004011650 A1 20040122

AI US 2002-201613 A1 20020722 (10)

DT Utility

FS APPLICATION

LREP DORSEY & WHITNEY LLP, Four Embarcadero Center-Suite 3400, San Francisco,

CA, 94111-4187

CLMN Number of Claims: 16

ECL Exemplary Claim: 1

DRWN 3 Drawing Page(s)

LN.CNT 3262

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is directed to devices and methods for manipulating polarizable analytes via dielectrophoresis to allow for improved detection of target analytes. Microfluidic devices are configured such that the application of a voltage between field-generating electrodes results in the generation of an asymmetric electric field within the device. Some embodiments of the invention provide a physical constriction, and electrically floating conductive material or a combination of the two techniques to generating an asymmetrical field. Using dielectrophoresis, target analytes are concentrated or separated from contaminant analytes and transported to a detection module.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 16 USPATFULL on STN

AN 2004:4360 USPATFULL

TI Multi-array multi-specific electrochemiluminescence testing

IN Wohlstadter, Jacob N., Rockville, MD, United States

Wilbur, James, Germantown, MD, United States

Sigal, George, Rockville, MD, United States

Martin, Mark, Rockville, MD, United States

Guo, Liang-Hong, Gaithersburg, MD, United States

Fischer, Alan, Cambridge, MA, United States

Leland, Jon, Silver Spring, MD, United States

Billadeau, Mark A., Mt. Airy, MD, United States

Helms, Larry R., Germantown, MD, United States

Darvari, Ramin, Waltham, MA, United States

PA Meso Scale Technologies, LLC., Gaithersburg, MD, United States (U.S. corporation)

PI US 6673533 B1 20040106

AI US 1997-932110 19970917 (8)

RLI Continuation-in-part of Ser. No. US 1996-715163, filed on 17 Sep 1996, now patented, Pat. No. US 6207369 Continuation-in-part of Ser. No. US 1996-611804, filed on 6 Mar 1996, now patented, Pat. No. US 6066448 Continuation-in-part of Ser. No. US 1995-402076, filed on 10 Mar 1995, now abandoned Continuation-in-part of Ser. No. US 1995-402277, filed on 10 Mar 1995, now abandoned

DT Utility

FS GRANTED

EXNAM Primary Examiner: Chin, Christopher L.

LREP Kramer Levin Naftalis & Frankel LLP, Evans, Esq., Barry

CLMN Number of Claims: 92

ECL Exemplary Claim: 1

DRWN 87 Drawing Figure(s);- 47 Drawing Page(s)

LN.CNT 7196

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array, multi-specific surfaces for use in diagnostics. The invention provides for electrochemiluminescence methods for detecting or measuring an analyte of interest. It also provides for novel electrodes for ECL assays. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 9 OF 16 USPATFULL on STN

AN 2003:152720 USPATFULL

TI Methods for the specific detection of redox-active tags and the use thereof for capillary gel electrophoresis and DNA sequencing

IN Kuhr, Werner G., Oak Hills, CA, UNITED STATES

Brazill, Sara A., Diamond Bar, CA, UNITED STATES

PA The Regents of the University of California (U.S. corporation)
PI US 2003104386 A1 20030605
AI US 2001-945238 A1 20010831 (9)
DT Utility
FS APPLICATION
LREP Patrick G. Burns, Esq., Greer, Burns & Crain, Ltd., 300 So. Wacker
Drive, Suite 2500, Chicago, IL, 60606
CLMN Number of Claims: 67
ECL Exemplary Claim: 1
DRWN 8 Drawing Page(s)
LN.CNT 2093

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention provides novel approach to the specific detection of redox-active moieties (e.g.) in a population of redox-active moieties. In particular this invention provides a "phase-nulling" technique that can be used in the electrochemical detection of redox-active tags. The signal for each tag is selectively eliminated while the other tag's response remains virtually unchanged. This novel analysis scheme allows for the simple identification of a tag of interest in a complex matrix and is demonstrated with both flow injection analysis and capillary gel electrophoresis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 16 USPATFULL on STN
AN 2003:17898 USPATFULL
TI VR-OAC, an osmotically activated channel protein, nucleic acids encoding it, and uses thereof
IN Liedtke, Wolfgang, New York, NY, UNITED STATES
Heller, Stefan, Rockland, MA, UNITED STATES
Hudspeth, Albert James, New York, NY, UNITED STATES
Friedman, Jeffrey M., New York, NY, UNITED STATES
PA The Rockefeller University, New York, NY (U.S. corporation)
PI US 2003013650 A1 20030116
AI US 2001-27828 A1 20011025 (10)
PRAI US 2000-243568P 20001026 (60)
DT Utility
FS APPLICATION
LREP KLAUBER & JACKSON, 411 HACKENSACK AVENUE, HACKENSACK, NJ, 07601
CLMN Number of Claims: 14
ECL Exemplary Claim: 1
DRWN 30 Drawing Page(s)
LN.CNT 4279

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to the identification in vertebrate animals, including humans, of an ion channel which is involved in osmoregulation and mechanoreception. This ion channel, named VR-OAC, functions as a cation channel which is activated by osmotic and mechanical stimulation. In particular, the present invention relates to the broad applications of VR-OAC that capitalize on its newly discovered properties and activities, including both diagnostic and therapeutic methodologies. The invention further relates to methods for using the receptor therapeutically, such as polypeptide or gene therapy, diagnostically. and to methods and assays for identification and screening of VR-OAC analogs, agonists or antagonists and uses thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 11 OF 16 USPATFULL on STN
AN 2002:314658 USPATFULL
TI Devices and methods for biochip multiplexing
IN Doung, Hau H., Los Angeles, CA, UNITED STATES
Blackburn, Gary, Glendora, CA, UNITED STATES
Kayyem, Jon F., Pasadena, CA, UNITED STATES
O'Connor, Stephen D., Pasadena, CA, UNITED STATES
Olsen, Gary T., La Crescenta, CA, UNITED STATES
Pietri, Robert, Pasadena, CA, UNITED STATES
Swami, Nathan, South Pasadena, CA, UNITED STATES

Terbrueggen, Robert H., Manhattan Beach, CA, UNITED STATES

PI US 2002177135 A1 20021128
AI US 2001-904175 A1 20010711 (9)
RLI Continuation of Ser. No. US 2001-760384, filed on 11 Jan 2001, PENDING
Continuation of Ser. No. WO 2001-US1150, filed on 11 Jan 2001, UNKNOWN
PRAI US 2000-175539P 20000111 (60)
US 1999-145840P 19990727 (60)
DT Utility
FS APPLICATION
LREP FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP, Suite 3400, Four Embarcadero
Center, San Francisco, CA, 94111-4187
CLMN Number of Claims: 23
ECL Exemplary Claim: 1
DRWN 42 Drawing Page(s)
LN.CNT 5001

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is directed to devices that allow for simultaneous
multiple biochip analysis. In particular, the devices are configured to
hold multiple cartridges comprising biochips comprising arrays such as
nucleic acid arrays, and allow for high throughput analysis of samples.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 12 OF 16 USPATFULL on STN
AN 2002:310615 USPATFULL
TI Compositions and methods for analyte detection
IN Cote, Gerard L., College Station, TX, United States
Pishko, Michael V., College Station, TX, United States
Sirkar, Kaushik, College Station, TX, United States
Russell, Ryan, College Station, TX, United States
Anderson, Richard Rox, Lexington, MA, United States
PA The Texas A&M University System, College Station, TX, United States
(U.S. corporation)
The General Hospital Corporation, Boston, MA, United States (U.S.
corporation)

PI US 6485703 B1 20021126
AI US 1999-354914 19990709 (9)
PRAI US 1998-94980P 19980731 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Hartley, Michael G.
LREP Howrey Simon Arnold & White, LLP
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 23 Drawing Figure(s); 16 Drawing Page(s)
LN.CNT 4501

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Provided are a variety of chemically sensitive, stable (insoluble over a
specified period of time), nontoxic, and non-antigenic hydrogel
particles which undergo a measurable change in at least one
electrochemical or optical property as a function of interaction with
one or more substance(s) to be detected. Also provided are methods of
using these hydrogel particles to detect one or more selected analytes,
and in certain aspects detect one or more analytes in vivo. Further
provided are devices used to detect and measure the optical or
electrochemical changes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 13 OF 16 USPATFULL on STN
AN 2001:185038 USPATFULL
TI Nucleic acid-coupled colorimetric analyte detectors
IN Charych, Deborah H., Albany, CA, United States
Jonas, Ulrich, Mainz, Germany, Federal Republic of
PA Regents of the University of California, Oakland, CA, United States
(U.S. corporation)
PI US 6306598 B1 20011023
AI US 1999-337973 19990621 (9)

RLI Continuation-in-part of Ser. No. US 1999-461509, filed on 14 Dec 1999
Division of Ser. No. US 1996-592724, filed on 26 Jan 1996, now patented,
Pat. No. US 6001556 Continuation-in-part of Ser. No. US 1993-159927,
filed on 30 Nov 1993 Continuation-in-part of Ser. No. US 1992-976697,
filed on 13 Nov 1992 Continuation-in-part of Ser. No. US 2000-500295,
filed on 8 Feb 2000 Division of Ser. No. US 1997-920501, filed on 29 Aug
1997, now patented, Pat. No. US 6022748 Continuation-in-part of Ser. No.
US 1998-103344, filed on 23 Jun 1998 Continuation-in-part of Ser. No. US
1996-609312, filed on 1 Mar 1996 Continuation-in-part of Ser. No. US
1995-389475, filed on 13 Feb 1995, now abandoned Continuation-in-part of
Ser. No. US 1994-289384, filed on 11 Aug 1994, now abandoned
Continuation-in-part of Ser. No. US 1996-328237, filed on 24 Oct 1996,
now abandoned Continuation-in-part of Ser. No. US 1997-944323, filed on
8 Oct 1997 Division of Ser. No. US 1995-389475, filed on 13 Feb 1995,
now abandoned Continuation-in-part of Ser. No. US 1994-289384, filed on
11 Aug 1994, now abandoned Continuation-in-part of Ser. No. US
1998-23898, filed on 13 Feb 1998 Continuation-in-part of Ser. No. US
1998-33557, filed on 2 Mar 1998

PRAI US 1998-90266P 19980622 (60)
US 1997-50496P 19970623 (60)
US 1997-38383P 19970214 (60)
US 1997-39749P 19970303 (60)

DT Utility

FS GRANTED

EXNAM Primary Examiner: Riley, Jezia

LREP Medlen & Carroll, LLP

CLMN Number of Claims: 23

ECL Exemplary Claim: 1

DRWN 60 Drawing Figure(s); 53 Drawing Page(s)

LN.CNT 4877

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to methods and compositions for the direct
detection of analytes and membrane conformational changes through the
detection of color changes in biopolymeric materials. In particular, the
present invention provide for the direct colorimetric detection of
analytes using nucleic acid ligands at surfaces of polydiacetylene
liposomes and related molecular layer systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 14 OF 16 USPATFULL on STN

AN 2001:155603 USPATFULL

TI Multi-array, multi-specific electrochemiluminescence testing

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PI US 2001021534 A1 20010913

AI US 2001-771796 A1 20010129 (9)

RLI Continuation of Ser. No. US 1996-715163, filed on 17 Sep 1996, GRANTED,
Pat. No. US 6207369 Continuation-in-part of Ser. No. US 1996-611804,
filed on 6 Mar 1996, GRANTED, Pat. No. US 6066448 Continuation-in-part
of Ser. No. US 1995-402076, filed on 10 Mar 1995, ABANDONED
Continuation-in-part of Ser. No. US 1995-402277, filed on 10 Mar 1995,
ABANDONED

DT Utility

FS APPLICATION

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10022

CLMN Number of Claims: 74

ECL Exemplary Claim: 1

DRWN 39 Drawing Page(s)

LN.CNT 6383

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array, multi-specific surfaces for use in diagnostics. The invention provides for electrochemiluminescence methods for detecting or measuring an analyte of interest. It also provides for novel electrodes for ECL assays. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 15 OF 16 USPATFULL on STN

AN 2001:43927 USPATFULL

TI Multi-array, multi-specific electrochemiluminescence testing

IN Wohlstadter, Jacob N., Rockville, MD, United States

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PI US 6207369 B1 20010327

AI US 1996-715163 19960917 (8)

RLI Continuation-in-part of Ser. No. US 1996-611804, filed on 6 Mar 1996, now patented, Pat. No. US 6066448 Continuation-in-part of Ser. No. US 1995-402076, filed on 10 Mar 1995, now abandoned Continuation-in-part of Ser. No. US 1995-402277, filed on 10 Mar 1995, now abandoned

DT Utility

FS Granted

EXNAM Primary Examiner: Chin, Christopher L.

LREP Kramer Levin Naftalis & Frankel LLP

CLMN Number of Claims: 13

ECL Exemplary Claim: 1

DRWN 87 Drawing Figure(s); 47 Drawing Page(s)

LN.CNT 6321

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array, multi-specific surfaces for use in diagnostics. The invention provides for electrochemiluminescence methods for detecting or measuring an analyte of interest. It also provides for novel electrodes for ECL assays. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 16 OF 16 USPATFULL on STN

AN 2001:10712 USPATFULL

TI Nucleic acid mediated electron transfer

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PI US 6177250 B1 20010123

AI US 1999-306737 19990507 (9)

RLI Continuation of Ser. No. US 1996-660534, filed on 7 Jun 1996, now patented, Pat. No. US 5770369 Continuation of Ser. No. US 1995-475051, filed on 7 Jun 1995, now patented, Pat. No. US 5824473 Continuation of Ser. No. US 1993-166036, filed on 10 Dec 1993, now patented, Pat. No. US 5591578

DT Utility

FS Granted

EXNAM Primary Examiner: Zitomer, Stephanie W.

LREP Flehr Hohbach Test Albritton & Herbert LLP, Trecartin, Esq., Richard F.,

Silva, Esq., Robin M.

CLMN Number of Claims: 19

ECL. Exemplary Claim: 1

DRWN 35 Drawing Figure(s); 8 Drawing Page(s)

LN.CNT 2518

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides for the selective covalent modification of nucleic acids with redox active moieties such as transition metal complexes. Electron donor and electron acceptor moieties are covalently bound to the ribose-phosphate backbone of a nucleic acid at predetermined positions. The resulting complexes represent a series of new derivatives that are bimolecular templates capable of transferring electrons over very large distances at extremely fast rates. These complexes possess unique structural features which enable the use of an entirely new class of bioconductors and photoactive probes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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